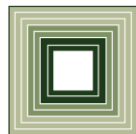


Business Intelligence

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FISCAL RESEARCH DIVISION
A Staff Agency of the North Carolina General Assembly

Agenda

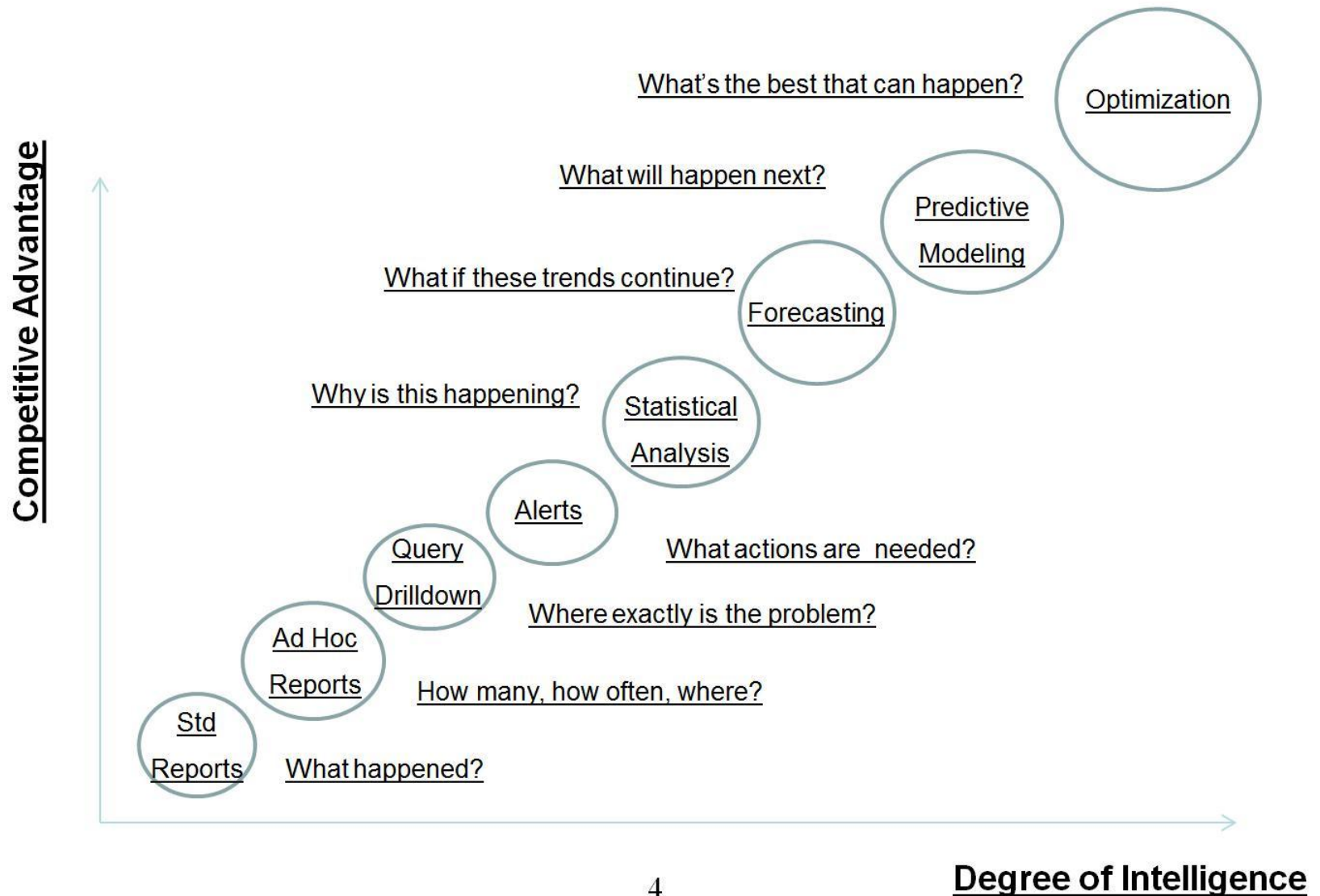
- Business Intelligence
- Legislative History
- Current Status
- Applications
- Projects Under Development
- Next Steps
- Potential Legislation

Business Intelligence

- Business intelligence, or BI, is an umbrella term that refers to a variety of software applications used to analyze an organization's raw data.
- BI as a discipline is made up of several related activities, including:
 - Data mining
 - Online analytical processing
 - Querying
 - Reporting.

Source: CIO.com

Levels of Business Intelligence



2007

- S.L. 2007-323, Sec. 6.8, BEACON Data Integration
 - Required the Office of the State Controller and the State Chief Information Officer to develop a Strategic Implementation Plan to for the integration of databases and sharing of information among State agencies and programs
 - Established BEACON Project Steering Committee for governance
 - Appropriated \$5,000,000 from the Information Technology Fund for SFY 2007-2008

2008

- S.L. 2008-107, Sec. 6.16, BEACON Data Integration
 - Required implementation of BEACON Strategic Plan for Data Integration
 - Provided an addition \$5,000,000 from the Information Technology Fund for data integration
 - Support three positions
 - Establish a Business Intelligence Competency Center
 - Engage a vendor
 - Conduct integration activities approved by the Steering Committee

2008

- S.L. 2008-107, Sec. 6.15, Criminal Justice Data Integration Pilot Program
 - Required the Office of the State Controller and the State Chief Information Officer to develop and implement a Criminal Justice Data Integration Pilot Program in Wake County
 - Established Advisory Committee
 - Required full cooperation of participating agencies
 - Provided \$5 million in funding

2009

- S.L. 2009-451, Sec. 6.9 BEACON Data Integration
 - Continued implementation
 - Gave priority to Criminal Justice Data Integration Pilot Program
- S.L. 2009-451, Sec. 6.10, Criminal Justice Data Integration Pilot Program
 - Continued development
 - Required plan for statewide expansion
 - Gave program priority for data integration funding

2010

- S.L. 2010-31, Sec. 6.10, Criminal Justice Law Enforcement Automated Data Services (CJLEADS)
 - Continued implementation of program
 - Provided for transfer to Department of Justice (changed in subsequent legislation)
 - Expanded Leadership Council

2011

- S.L. 2011-145, Sec. 6A.4, Criminal Justice Law Enforcement Automated Data Services (CJLEADS)
 - Continued implementation, expanding the program throughout the State
 - Required review of plan to transfer to Department of Justice

2011

- S.L. 2011-145, Sec. 6A.20, Comprehensive Enterprise-Level Data Integration Capability
 - Required OSC to continue development of comprehensive enterprise-level data integration capability, providing broad access to and analysis of information across State government
 - Created a Data Integration Steering Committee
 - Required development of an enterprise process to detect fraud, waste, and improper payments
 - Allowed for \$8 million, two-year contract
 - Provided \$500,000 to OSC for each year
 - Required State to share in intellectual property and residuals resulting from vendor sales to third parties

Current Status

- Data integration effort managed by the Office of the State Controller
- Hosted by the vendor
 - Criminal Justice Law Enforcement Automated Data Services (CJLEADS)
 - North Carolina Financial Accountability and Compliance Technology System (NC FACTS)

Current Status

- Data Integration Steering Committee
 - Chaired by State Controller
 - Six members
 - Two appointed by the Governor
 - Two appointed by the President Pro Tempore of the Senate
 - Two appointed by the Speaker of the House
 - Advisory members
 - Director, OSBM
 - State Chief Information Officer
 - State Treasurer
 - State Auditor

Applications

Agency	Project	Description	Vendor
Department of Commerce	Policy, Research, and Strategic Planning Economic Development Intelligence System (EDIS)	Central repository for economic data, providing data, GIS, and advanced analytics	SAS
OSC	DSS/Cognos - 1	State budget and accounting	COGNOS
OSC	NCAS Cognos Reporting/Budget Status Reports	Used for monthly and year end financial analysis and reporting	COGNOS
DENR	Division of Marine Fisheries-Biological Data Base	Marine fisheries information management and support system	SAS
DENR	Inspections	Air quality inspections	SAP Business Objects
DENR	ISTEPS Historical Data	NC air quality permitted facilities enforcement.	SAP Business Objects
DENR	Program Tracking	Air quality program tracking	SAP Business Objects
DENR	Reporting Tracking	Air quality report tracking	SAP Business Objects
DENR	Statistical Analysis	Air statistical analysis	SAS
DENR	Title V Equipment Editor	Air quality Title V equipment editor	SAP Business Objects

Current Applications

Agency	Project	Description	Vendor
DHHS	Client Services Data Warehouse - CSDW	Historical data from DHHS Divisions and programs	SAP Business Objects
DHHS	DRIVE	Analyze Medicaid and Health Choice data	SAS
ITS	SAS IT Resource Manager/ IT Chargeback Management	Support IT resource management	SAS
DPI	NC WISE	Management of student information from local to State level	SAS
DPI	Principals Monthly Report	Attendance, enrollment, and withdrawal data	SAS
DPI	Professional Personnel Activity Report (PPAR)	Required for schools not using standard calendar	COGNOS
DPI	School Activity Report	Records activities of all school-based professional personnel in contact with students	SAS/COGNOS
DOT	Liability Insurance Tracking and Enforcement System (LITES)	Provides support for DMV clients responsible for ensuring that registered owners of motor vehicles in the State of North Carolina maintain the proper level of liability insurance coverage.	SAS
UNCGA	Spend Compass	Analyzes universities' procurement across systems	Education Advisory Board

Current Projects

Agency	Project	Description	Vendor
OSC	Criminal Justice Data Integration Pilot for Wake County	Integrates criminal justice data	SAS
OSC	Financial Accountability and Compliance Technology System (NC FACTS)	Fraud detection	SAS
DHHS	Division of Medical Assistance- Health Analytics Initiative	Fraud, waste, and abuse system to support DMA	COGNOS
DHHS	Division of Medical Assistance - SAS Medicaid Recipient Eligibility Solution	Identifies potentially ineligible Medicaid participants	SAS
DHHS	Replacement MMIS Reporting and Analytics (R&A) Project	Replace Decision Support System and Surveillance, Utilization, and Recovery Services to support new MMIS project	SAS
DPI	Ad Hoc Reporting State Rollout	Provides ad hoc reporting for LEAs and charter schools	SAS
DOR	Tax Information Management System (TIMS)	Integrates all of the State's tax types	SAS
OSBM	Budget and Performance Management System - NC IBIS	Provide budget information and connect programs to budget and performance	COGNOS
OSBM	NC OpenBook/OERION	Retrieves data from existing contracts, grants, and accounting systems,clarifies the linkages among agencies, awards, awardees, and spending.	SAS
DPI	Planning, Programming, Budgeting, and Execution System	Monitors and provides information on status of IT projects	Oracle
Treasurer	Risk Management Project	Develop and refine risk management analytics that are specific to pension plan management	SAS/NCRS

Next Steps

- Establish/continue an enterprise-level business intelligence program.
 - Facilitate development of an organization within a designated agency.
 - Define requirements for the program.
 - Define the objectives.
 - Define the end state.
 - Establish priorities for implementation.
 - Require development of a plan and a timeline.
 - Include the State's current data integration initiative.
 - Incorporate existing projects.

Next Steps

- Review/establish a governance structure.
 - Provide required authority
 - Encourage data sharing (funding through lead agency)
 - Establish a Government Business Intelligence Competency Center
 - Continue/relook composition of steering committee
- Inventory existing data analytics projects, both completed and under development.
 - Determine if current projects support the enterprise-level objectives.
 - Determine if current applications are scalable and/or applicable for multiple agencies.
 - Identify redundancies.
 - Determine where gaps exist in current capabilities.

Next Steps

- Identify potential resources for developing an enterprise-level program.
 - Eliminate redundant projects, software, and licensing, and reprogram funding.
 - Use appropriate information technology funding sources.
 - Identify other sources of funding.
- Identify technologies supporting business intelligence.
 - Identify technologies currently in use in North Carolina.
 - Identify other technologies that could support the effort, especially those with unique capabilities.
- Ensure implementers have tools to be successful.
- Encourage participation.
- Establish appropriate security requirements.

Next Steps

- Coordinate efforts of committees
 - Joint Legislative Oversight Committee on Information Technology
 - Efficiencies in State Government Committee (LRC)
- Include recommendations in committee report
- Develop bill and/or special provision
 - Formally establish program
 - Provide funding

Potential Legislation



Questions

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